

# **Environmental Management System (EMS)**

## **Installation EMS Awareness Training 222d BSB Baumholder**



**Mr. Michael Eckels (URS)**

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# Purpose

- Provide a basic understanding of what is an Environmental Management System (EMS)
- Describe why an EMS is necessary
- Show the benefits of EMS
- Explain in short the EMS process and EMS Model
- Present the 222d BSB's Environmental Policy
- Explain the 222d BSB's significant environmental aspects and the relationship between mission activities, aspects and impacts
- Describe what BSB personnel and members can do to protect the environment
- Explain roles and responsibilities in achieving conformance with the 222d BSB's environmental policy, procedures and EMS
- Present the procedure for eliminating non-conformities with EMS requirements

# What is an Environmental Management System?

EMS is:

- a system for managing the BSB's environmental program
- used to achieve the BSB's environmental objectives
- implemented to improve the BSB's environmental performance

# Why EMS?

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- EO 13148 - April 22, 2000 - “Greening of the Government Through Leadership in Environmental Management”

Implementation of an EMS by 31 Dec 05

- July 13, 2001 - Army Environmental System Action Memorandum from the Deputy Assistant Secretary of the Army

Army installations must adopt ISO 14001 as a goal

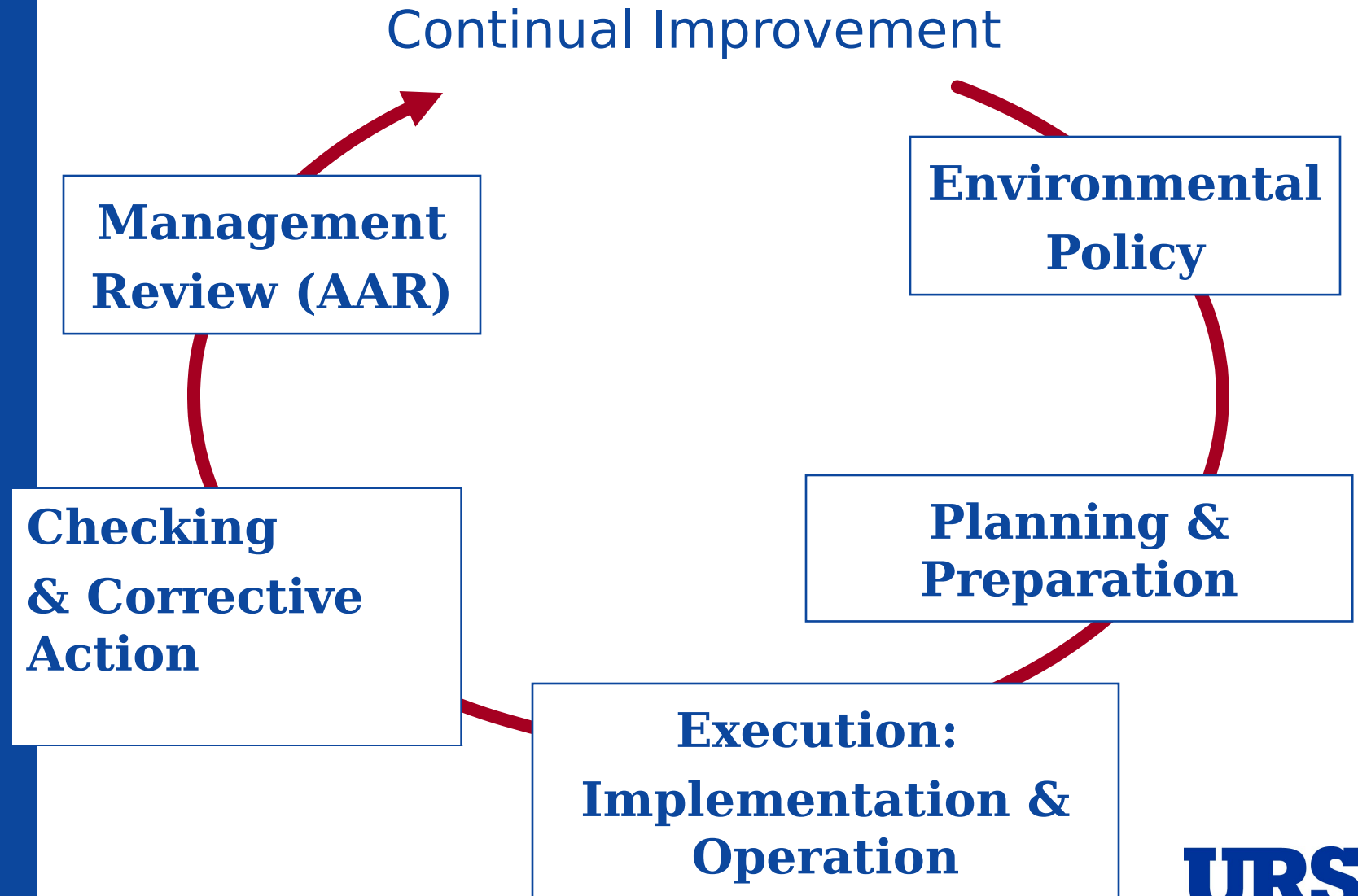
Full conformance with ISO 14001 NLT FY 09

# Benefits of EMS

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- Positive effect on compliance and performance
- Improved environmental awareness, involvement and competency across organization
- Better communication of environmental issues - internal and external
- Improved efficiency, reduced costs, greater consistency in environmental program
- Continual improvement aspect allows flexibility, and opportunity to correct imperfections
- Better relationships with regulator
- Identification of risk and prevention of problems outside of regulatory requirements - e.g., aging infrastructure

# EMS Process: Plan Do Check Act



# 222d BSB's Environmental Policy

- Environmental Policy is effective since 09 Sept 04.
- Policy is available at the following website <http://www.baumholder.army.mil/media/Policies/policyletters.htm> and also at the DPW environmental office.
- 222d BSB commits itself to:
  - comply with applicable environmental policies, laws and regulations, and ensure that all base activities are in compliance with environmental regulations and other requirements.
  - fully integrate the relevant environmental requirements into its mission procedures and work practices ... so that environmental awareness and compliance are a routine part of performing activities and services.
  - allocate resources and training to protect the environment.
  - communicate and reinforce this policy throughout the BSB

# Definitions: Environmental Aspects and Impacts

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An environmental aspect is the part of an activity, product, or service that interacts with the environment.

An environmental impact is any change to the environment that is caused by an environmental aspect.

A significant environmental aspect is any environmental aspect that has or can have a significant environmental impact.



# Example: Activity - Aspect - Impact Relationship

Activity/Process	Aspect Examples	Impact Examples
Vehicle Maintenance	Hazardous and solid waste generation Water, electricity and fossil fuel consumption Noise generation Wastewater generation Air emissions (volatiles)	Reduced landfill space Loss of natural resources Increased noise levels Contamination of soil, groundwater or surface water Reduced air quality
Office Work	Water and electricity consumption Wastewater generation Solid waste generation Air emissions (ozone depleting substances in air cooling units)	Loss of natural resources Contamination of soil, groundwater or surface water Reduced landfill space Reduced air quality

# 222d BSB Significant Aspects

Determined by scoring the following criteria for each aspect:

- ▶Regulatory Compliance (Weighted)
- ▶Environmental Risk (Severity + Frequency)
- ▶Mission Impact
- ▶Community Concern

Aspects ranked from high to low. Top 3 considered as Significant Aspects.

Results:

- 1) Air emissions (ODS)
- 2) Stormwater discharge
- 3) Solid waste generation (medical, non-infectious)

# What can BSB personnel and members do to protect the environment?

- Be aware of environmental regulations and guidance applicable to the job and potential impacts to the environment.
- Be observant for potential non-conformities and opportunities for improving environmental performance.
- Implement tools/equipment/procedures for improving environmental performance.
- Promote environmental awareness.

*To achieve this:*

*Regularly communicate with the EMO.  
Request assistance of the EMO, when needed.*

# Roles and responsibilities in EMS (1/6)

The 222d BSB has an EMS procedure in place which defines roles and responsibilities.

Amongst others, the roles and responsibilities for the following positions are defined there:

- Unit/Organization Personnel
- Environmental Compliance Officers (ECOs)
- DoD Dependents
- CFT Members
- Directors/Unit Commanders

# Roles and responsibilities in EMS (2/6)

## Unit/Organization personnel:

- conform to environmental policy and EMS procedures
- be aware of significant environmental aspects that they may influence with their work and the benefits of improved personal performance
- report EMS non-conformities to the CFT
- know consequences for not conforming to EMS requirements
- be aware of their roles and responsibilities within EMS

# Roles and responsibilities in EMS

## (3/6)

### **Environmental Compliance Officers:**

- conform to environmental policy and EMS procedures
- be aware of significant environmental aspects that they may influence with their work and the benefits of improved personal performance
- disseminate EMS information to unit personnel at all levels
- feedback to CFT on implementing and maintaining EMS
- coordinate/ provide units EMS awareness level and operation specific training required by EMS
- maintain documents and records relevant for EMS
- report EMS non-conformities to the CFT
- know consequences for not conforming to EMS requirements
- be aware of their roles and responsibilities within EMS

# Roles and responsibilities in EMS

## (4/6)

### **DoD Dependents:**

- conform to environmental policy and EMS procedures
- be aware of significant environmental aspects that they may influence
- report EMS non-conformities to the CFT
- know consequences for not conforming to EMS requirements
- be aware of their roles and responsibilities within EMS

# Roles and responsibilities in EMS (5/6)

## CFT Members:

- gather, organize and disseminate EMS related-information
- delegate EMS tasks and general responsibilities
- develop EMS procedures
- advise, coordinate and facilitate EMS implementation
- represent all functional areas of the BSB
- manage reactions to changes resulting from EMS implementation



# Roles and responsibilities in EMS (6/6)

## **Directors/Unit Commanders:**

- regularly attend EQCC meetings
- instruct personnel under their command to follow the EMS and incorporate into the day-to-day functions of their organization
- meet with the EMSMR as needed to facilitate implementing and maintaining the EMS and to resolve non-conformities
- appoint a member of their organization to the CFT, if required
- provide resources if required to implement and maintain EMS

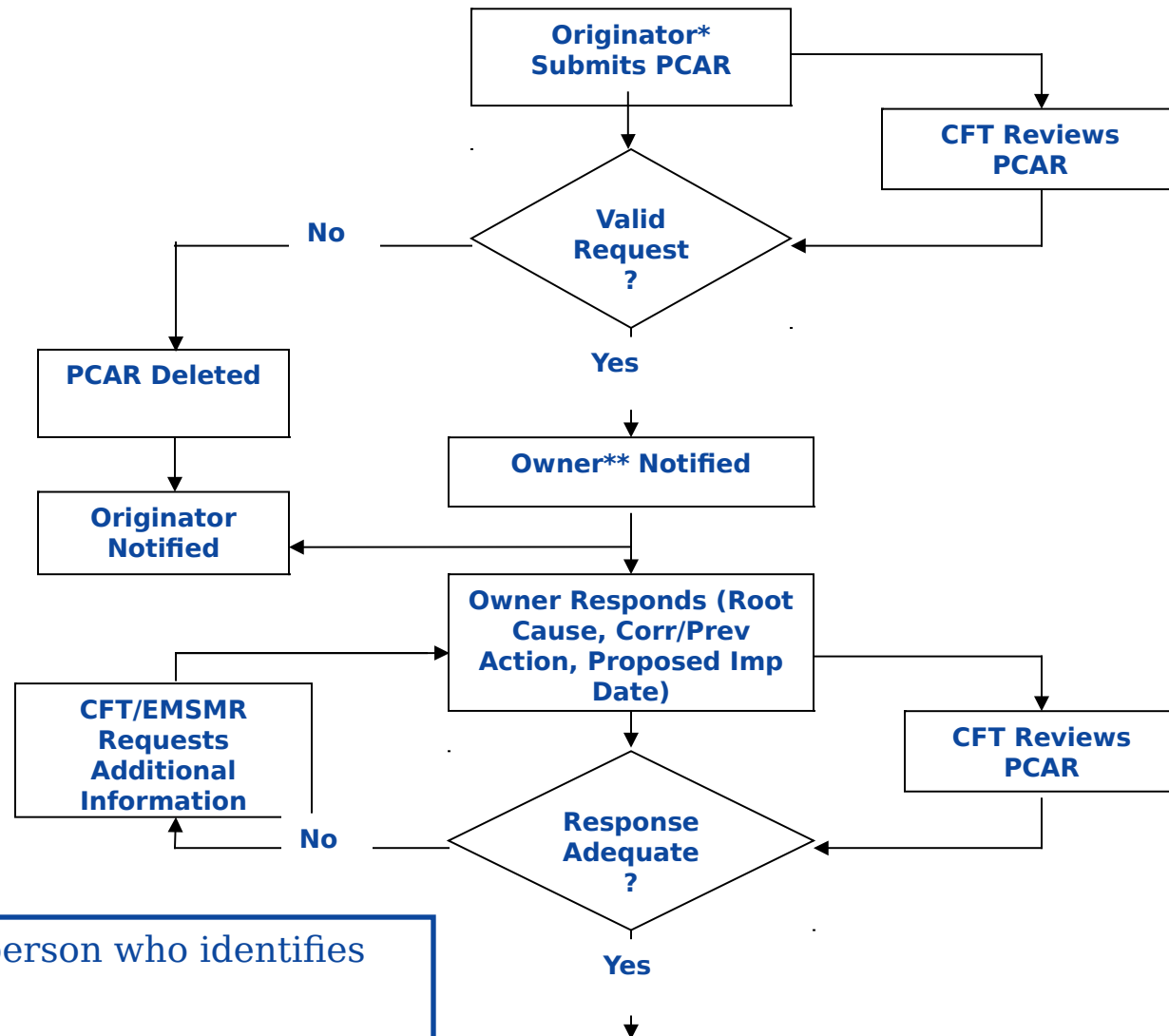
# Procedure for eliminating non-conformities

Establishing a procedure for dealing with actual and potential nonconformities is an ISO 14001 requirement.

222d BSB procedure:

As soon as an EMS non-conformity is identified the Preventive/Corrective Action Request (**PCAR**) **process** for implementing corrective/ preventive action has to be started.

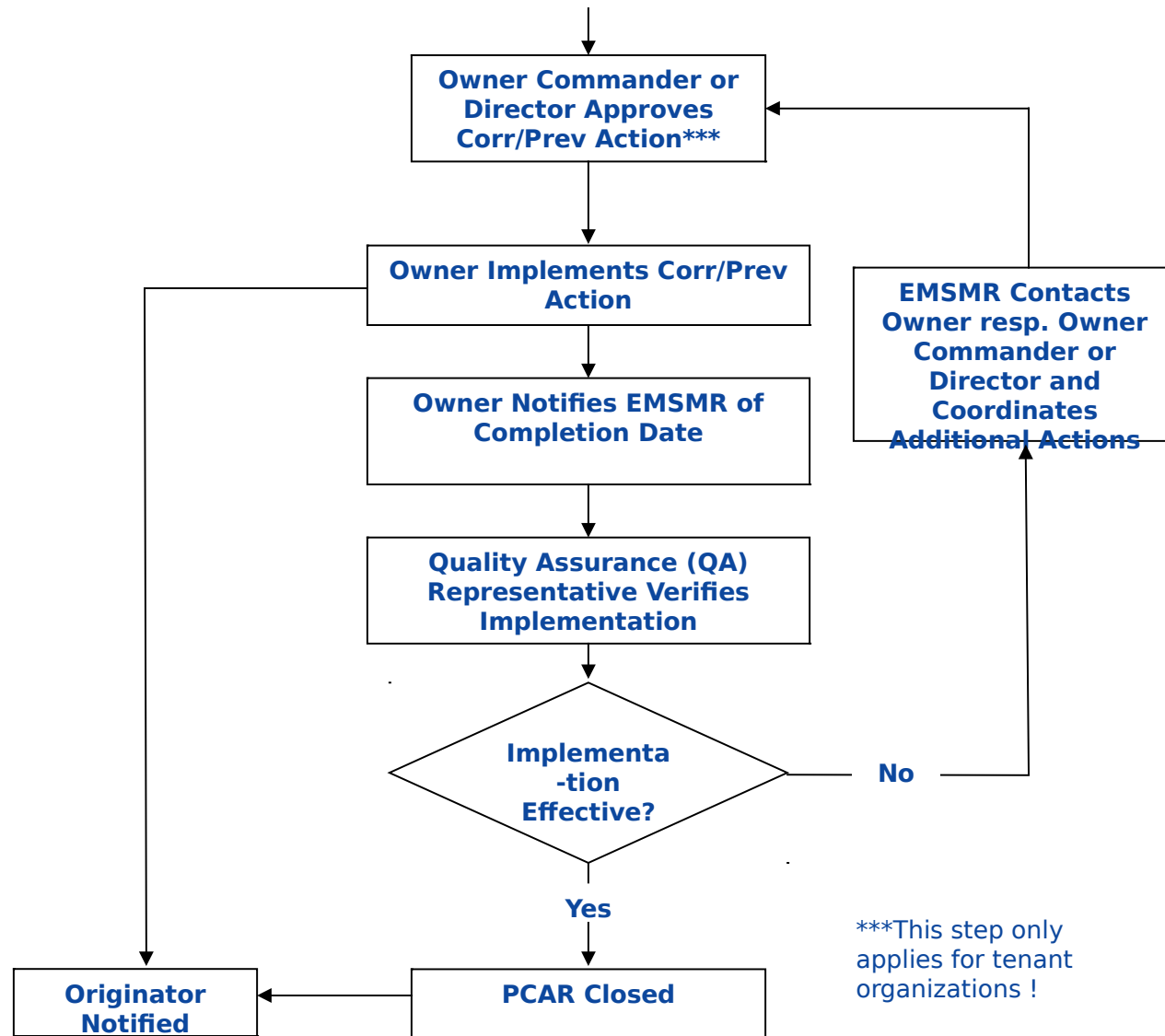
# PCAR Process (Preventive/Corrective Action Request Process) (1/2)



\*Originator = person who identifies non-conformity

\*\*Owner = person responsible/ accountable for implementing corrective/ preventive action

# PCAR Process (Preventive/Corrective Action Request Process) (2/2)



# How Can You Support?

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- Be aware of EMS.
- Help implementing EMS by following the EMS procedures.
- Integrate the EMS principles into your daily work.
- Hand in PCARs where you see a need for improvement.
- Attend EMS training and workshops when offered.
- Use the web sources provided under <http://www.baumholder.army.mil/> to deepen your understanding of EMS.
- Keep up-to-date with the status of EMS within the 222d BSB.